

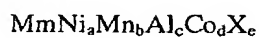
## ABSTRACT

A hydrogen storage material which is an AB<sub>5</sub> type hydrogen storage alloy having a CaCu<sub>5</sub> type crystal structure represented by general formula:



5        wherein Mm is a misch metal,  $4.1 < a \leq 4.3$ ,  $0.4 < b \leq 0.6$ ,  $0.2 \leq c \leq 0.4$ ,  $0.1 \leq d \leq 0.4$ , and  $5.2 \leq a+b+c+d \leq 5.45$ ,

or general formula:



10        wherein Mm is a misch metal, X is Cu and/or Fe,  $4.1 < a \leq 4.3$ ,  $0.4 < b \leq 0.6$ ,  $0.2 \leq c \leq 0.4$ ,  $0.1 \leq d \leq 0.4$ ,  $0 < e \leq 0.1$ , and  $5.2 \leq a+b+c+d+e \leq 5.45$ ,

characterized in that the lattice length on the c-axis is 406.2 pm or more, and a process of producing the same.

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